



PTO/SB/08a/b (05-03)

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number		09/717,450	
				Filing Date		November 20, 2000	
				First Named Inventor		NEUHOLD	
				Art Unit		1632	
				Examiner Name		Michael C. Wilson	
Sheet	1	of	4	Attorney Docket Number		00630/100D532-US1	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Document Number	Filing Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document; Class/Subclass	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number-Kind Code ² (if known)				
	1.	5,650,298	06/14/1994	Bujard et al.; 435/69.7		

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Class/Subclass	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	2.	WO 95/32285 A2	05/18/1995	C12N 15/12		
	3.	WO 92/22333	06/10/1992	A61K 49/00		
	4.	DE 19501032 A	07/18/1996	A61K 38/55		

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		
	5.	Nauper, Vera, et al., "Biochemical Characterization of Human Collagenase-3", <i>The Journal of Biological Chemistry</i> , 271(3):1544-1550 (January 19, 1996)		
	6.	Billinghurst, R. Clark, et al., "Enhanced Cleavage of Type II Collagen by Collagenases in Osteoarthritic Articular Cartilage", <i>J. Clin. Invest.</i> , 99(7):1534-1545 (April 1997)		
	7.	Mitchell, Peter G., et al., "Cloning, Expression, and Type II Collagenolytic Activity of Matrix Metalloproteinase-13 from Human Osteoarthritic Cartilage", <i>J. Clin. Invest.</i> , 97(3):761-768 (February 1996)		
	8.	(Duplicate)		
	9.	Liu, Xin, et al., "A Targeted Mutation at the Known Collagenase Cleavage Site in Mouse Type I Collagen Impairs Tissue Remodeling", <i>The Journal of Cell Biology</i> , 130(1):227-237 (July 1995)		

Examiner Signature		Date Considered	
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10.	Khokha, Rama, et al., "Utilization of Transgenic Mice in the Study of Matrix Degrading Proteins and Their Inhibitors", <i>Cancer and Metastasis Reviews</i> , 14(2):97-111 (1995)	
11.	No, David, et al., "Ecdysone-Inducible Gene Expression in Mammalian Cells and Transgenic Mice", <i>Proc. Natl. Acad. Sci. USA</i> , 93:3346-3351 (April 1996)	
12.	Wang, Yaolin, et al., "A Regulatory System for Use in Gene Transfer", <i>Proc. Natl. Acad. Sci. USA</i> , 91:8180-8184 (August 1994)	
13.	Wang, Y., et al., "Positive and Negative Regulation of Gene Expression in Eukaryotic Cells with an Inducible Transcriptional Regulator", <i>Gene Therapy</i> , 4:432-441 (1997)	
14.	Mattioni, Tiziana, et al., "Regulation of Protein Activities by Fusion to Steroid Binding Domains", <i>Methods in Cell Biology</i> , 43:335-352 (1994)	
15.	Watson, James, D., et al., "The Introduction of Foreign Genes into Mice", <i>Recombinant DNA</i> , 2d Ed., W.H. Freeman & Co., New York, pp. 255-272 (1992)	
16.	Gordon, Jon W., "Transgenic Animals", <i>International Review of Cytology</i> , 155:171-229 (1989)	
17.	Jaenisch, Rudolf, "Transgenic Animals", <i>Science</i> , 240:1468-1474 (June 10, 1988)	
18.	Rossant, J., "Manipulating The Mouse Genome: Implications for Neurobiology", <i>Neuron</i> , 2:323-334 (March 1990)	
19.	Weingarten, Harold, et al., "Synthetic Substrates of Vertebrate Collagenase", <i>Biochemistry</i> 24:6730-6734, 1985	
20.	Woessner, Jr., J. Frederick, and Taplin, C.J., "Purification and Properties of a Small Latent Matrix Metalloproteinase of the Rat Uterus", <i>The Journal of Biological Chemistry</i> , 263(14):16918-16925 (November 15, 1988)	
21.	Knight, C. Graham, et al., "A Novel Coumarin-Labelled Peptide for Sensitive Continuous Assays of the Matrix Metalloproteinases", <i>Federation of European Biochemical Societies Letters</i> , 296(3):263-266 (January 1992)	
22.	Witty, Jean, P., et al., "Matrix Metalloproteinases Are Expressed During Ductal and Alveolar Mammary Morphogenesis, and Misregulation of Stromelysin-1 in Transgenic Mice Induces	

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		Unscheduled Alveolar Development", <i>Molecular Biology of the Cell</i> , 6:1287-1303 (October 1995)	
	23.	Gossen, Manfred, and Bujard, H., "Tight Control of Gene Expression in Mammalian Cells by Tetracycline-responsive Promoters", <i>Proc. Natl. Acad. Sci. USA</i> , 89:5547-5551 (June 1992)	
	24.	(Duplicate)	
	25.	D'Armiento, Jeanine, et al., "Collagenase Expression in the Lungs of Transgenic Mice Causes Pulmonary Emphysema", <i>Cell</i> , 71: 995-961 (December 11, 1992)	
	26.	Weir, Eleanor, C., et al., "Targeted Overexpression of Parathyroid Hormone-Related Peptide In Chondrocytes Causes Chondrodysplasia And Delayed Endochondral Bone Formation", <i>Proc. Natl. Acad. Sci. USA</i> , 93:10240-10245 (September 1996)	
	27.	Overbeek, Paul A., "Transgenic Phenomenology", <i>Transgenic Animal Technology</i> , pp. 96-98 (1994)	
	28.	Robl, James, M., and Heideman, J.K., "Production of Transgenic Rats and Rabbits", <i>Transgenic Animal Technology</i> , pp. 265-270 (1994)	
	29.	Mullins, Linda J., and Mullins, John J., "Perspectives Series: Molecular Medicine in Genetically Engineered Animals", <i>J. Clin. Invest.</i> , 98(11):S37-S40 (1996)	
	30.	Shapiro, Steven, D., "Mighty Mice: Transgenic Technology 'Knocks out' Questions of Matrix Metalloproteinase", <i>Matrix Biology</i> , 15:527-533 (1997)	
	31.	D'Armiento, Jeanine, et al., "Collagenase Expression in Transgenic Mouse Skin Causes Hyperkeratosis and Acanthosis and Increases Susceptibility to Tumorigenesis", <i>Molecular and Cellular Biology</i> , 15(15):5732-5739 (Oct. 1995)	
	32.	Freije, Jose M.P., et al., "Molecular Cloning and Expression of Collagenase-3, a Novel Human Matrix Metalloproteinase Produced by Breast Carcinomas", <i>The Journal of Biological Chemistry</i> , 269(24):16766-16773 (June 17, 1994)	
	33.	Sympson, Carolyn J., et al., "Targeted Expression of Stromelysin-1 in Mammary Gland Provides Evidence for a Role of Proteinases in Branching Morphogenesis and the Requirement for an Intact Basement Membrane for Tissue-specific Gene Expression", <i>The Journal of Cell Biology</i> , 125(3):681-693 (May 1994)	

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	34.	Sanchez-Lopez, Rosana, et al., "Structure-Function Relationships in the Collagenase Family Member Transin", <i>The Journal of Biological Chemistry</i> , 263(24):11892-11900 (August 1988)	
	35.	Kozaci, L. Didem, et al., "Degradation of Type II Collagen, but not Proteoglycan, Correlates with Matrix Metalloproteinase Activity in Cartilage Explant Cultures", <i>Arthritis & Rheumatism</i> , 40(1):164-174 (January 1997)	
	36.	Wall, R.J., "Transgenic Livestock: Progress and Prospects for the Future", <i>Theriogenology</i> , 45:57-68 (1996)	
	37.	Ebert, Karl M. et al., "A Moloney MLV-Rat Somatotropin Fusion Gene Produces Biologically Active Somatotropin in a Transgenic Pig", <i>Molecular Endocrinology</i> , pp. 277-282 (1988)	

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